SPECIAL AIRWORTHINESS INFORMATION BULLETIN

Aircraft Certification Service Washington, DC



U.S. Department of Transportation

Federal Aviation Administration

NE-06-28 January 31, 2006

http://www.faa.gov/aircraft/safety/alerts/SAIB

This is information only. Recommendations aren't mandatory.

Introduction

This Special Airworthiness Information Bulletin recommends that you, registered owners, operators, and certificated repair facilities of **certain Teledyne Continental**Motors (TCM) and Textron Lycoming Corp. (Lycoming) series reciprocating engines (see Table 1) overhauled by BC Aero Engines, LTD., of British Columbia, Canada, between February 1, 2002 and July 18, 2004, inspect those engines for non-conformance to the approved overhaul instructions.

Background

Transport Canada reported that BC Aero Engines, LTD. might have improperly overhauled or repaired TCM and Lycoming reciprocating engines between February 1, 2002 and July 18, 2004. Transport Canada determined that these engines might not be in conformance with the manufacturer's overhaul instructions and data, and might have serious quality issues that could result in an unsafe condition. Transport Canada issued Airworthiness Directive (AD) CF-2005-40, dated December 5, 2005 to specify mandatory corrective actions for these engines. We concur with Transport Canada's conclusions, but have determined that mandatory action is unnecessary in the USA.

Recommendations

1. For engines identified in Table 1 below, we recommend that you take the following actions within 50 hours time-in-service

(TIS) or six months, whichever comes first, after the issue date of this SAIB:

- a. Review your engine logbook and records to determine the level of maintenance performed by BC Aero Engines, LTD.
- b. If the level of maintenance can be determined by the records, disassemble your engine to the same level and repair as necessary. Otherwise, overhaul your engine in accordance with the engine manufacturer's overhaul instructions.
- 2. For engines not identified in Table 1 below, we recommend that you review your engine logbook and records within 50 hours TIS or six months, whichever comes first, after the issue date of this SAIB. If BC Aero Engines, LTD. overhauled, repaired, or disassembled your engine between February 1, 2002 and July 18, 2004, we recommend that you comply with paragraphs 1.a. and 1.b. above.

The complete text of Transport Canada AD CF-2005-40 is available on their website at http://www.tc.gc.ca/civilaviation/certification/menu.htm.

For Further Information Contact

Mark Rumizen, Aerospace Engineer, FAA, Engine & Propeller Directorate Standards Staff, 12 New England Executive Park, Burlington, MA, 01803; phone: (781) 238-7113; fax: (781) 238-7199; email: mark.rumizen@faa.gov.

TABLE 1
Confirmed Overhauls by B.C. Aero Engines Ltd

Work	Date Overhauled	Engine Type	Engine Serial
Order	(dd/mm/yy)		Number
05	07/08/02	Cont O-300-C	20170-D-9-6
06	09/04/02	Lyc O-360-A3A	L-1256320
10	08/02/02	Lyc O-235 L2A	L19308-15
22	07/12/02	Lyc ????	LS9615-8-N-R
51	09/07/02	Lyc O-235 L2C	L17688-15
62	10/02/02	Lyc O-320-E2D	L2003-27A
64	04/12/02	Lyc O-320	L-6256-27
73	03/01/03	Cont O-300-A	15750-D-5-AF
78	24/06/02	Lyc IO-540-C4B5	LW-9388-48
81	03/30/03	Lyc O-540-E4C5	L11686-40
82	02/18/03	Cont O-200-A	250679
89	04/03/03	Lyc TIO-540-F2BD	RL 4876-61A
90	03/10/03	Lyc O-320-D2J	L-12323-39A
111	02/06/03	Lyc O 320-E2D	L-30661-27A
112	07/12/02	Cont O-200A	72-1ABJ-A-48
115	09/06/03	Lyc IO-360	351106
118	06/03/03	Lyc O-320-D2J	L-10672-39A
119	31/07/03	Lyc O-540-E4B5	L-9638-40
126	21/07/03	Lyc TIO-540-A2B	L185-61
138	27/08/03	Lyc O-320-D2J	L11739-39
142	10/06/03	Cont O-470-R	226648R
146	11/07/03	Lyc O-540-E4C5	L15311-40
150	12/23/03	Lyc IO-540-K1B5	27766-48A
152		Cont O-300-D	35531 D7D
164	22/04/04	Cont O-470-U	249977R
165	28/03/03	Lyc IO-540-C4B5	L6082-48
166	26/02/04	Lyc IO-540-F2BD	RL710-68A
167	05/01/04	Cont O-300A	15573-D2AR
168	20/02/04	Lyc O-320-D2J	12273-39A
173	26/03/04	Lyc O-540-E4C5	L-2789-40
183	04/05/04	Cont IO-470-V-O	148919-9V
185	22/04/04	Lyc O-235-L2C	L18342-15
189	29/04/04	Lyc TIO-540-A2A	L8840-61C
192	04/05/04	Cont IO-470-V-O	148927-9V
195	05/10/04	Lyc. IO-540-C4B5	L8326-48A
196	07/08/04	Cont O-200A	255453
200	27/05/04	Lyc TIO-540	L-1076-61
213	29/06/04	Lyc O-235 L2C	L13878-15
		Cont TSIO 520 P	L278738
	21/10/02	Lyc O-235 C	L11351-15
	29/12/03	Lyc O-360 A3M	L9819 36A
	02/05/02	Lyc O-235-C1L	L19306-16